(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 5 August 2004 (05.08.2004)

PCT

(10) International Publication Number WO 2004/065341 A1

- (51) International Patent Classification⁷:
- C07C 29/151
- (21) International Application Number:

PCT/GB2004/000075

- (22) International Filing Date: 12 January 2004 (12.01.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0301323.2

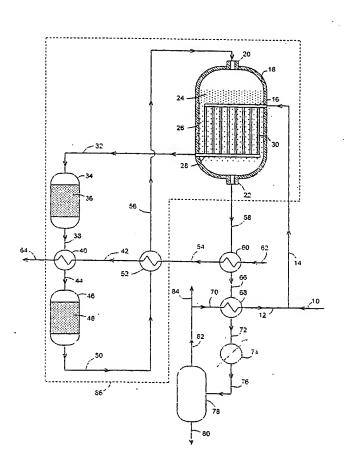
21 January 2003 (21.01.2003) GB

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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: METHANOL SYNTHESIS



(57) Abstract: Methanol is synthesised from pre-heated methanol synthesis gas in one or more adiabatic synthesis stages with cooling of the resultant gas after each stage. Further methanol synthesis is then effected on the resultant partially reacted synthesis gas in a bed of synthesis catalyst cooled by means of a coolant flowing co-currently through tubes disposed in the catalyst bed. After cooling, methanol is separated from the unreacted gas. Part of the unreacted gas is combined with make-up gas and used as the coolant fed to the aforesaid tubes, thus producing the pre-heated synthesis gas to be fed to the adiabatic synthesis stages.

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